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[1. A11a-T011: High Risk Rapid Ethnographic Assessment Tool \(HRREAT\)](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop an integrated software tool for the collection, management, analysis, and visualization of ethnographic data in high risk areas. DESCRIPTION: The collection and analysis of socio-cultural data is becoming increasingly important for the conduct of effective military operations. The production of more scientifically valid models of human behavior has itself become increasin ...

STTR Army

[2. A11a-T012: Generation of Hydrogen from Methanol](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Exploration of alternative approaches to generate hydrogen from methanol without thermal reforming. Current thermal reformers operate at elevated temperatures. Novel methanol electrolysis processes that converts methanol into hydrogen for use in low power fuel cells will be developed. DESCRIPTION: Current low power Army Fuel cells that are being developed either steam reform metha ...

STTR Army

[3. A11a-T013: Biomimetic Membranes for Direct Methanol Fuel Cells](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop new biomimetic membranes with chemical stability and reduced methanol crossover to enable micro direct methanol fuel cells (DMFCs). DESCRIPTION: The Army has need for high-energy density, lightweight power sources for the dismounted warrior. Currently methanol fueled polymer electrolyte based fuel cells suffer from methanol cross over which reduces overall system efficienc ...

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[4. A11a-T014: High-capacity and Cost-effective Manufacture of Chloroperoxidase](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a fungal protein expression system with integrated purification scheme for low-cost production of purified, functional Chloroperoxidase in kilogram quantities. DESCRIPTION: Chloroperoxidase (CPO) is an enzyme produced by certain fungal species that catalyzes a diversity of biochemical reactions. For example, the CPO produced by the filamentous fungus *Caldariomyces fumago* cat ...

STTR Army

5. [A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

6. [A11a-T016: High Performance Complex Oxide Thin Film Materials to Enable Switchable Film Bulk Acoustic Resonators \(FBAR\) for Low-Loss Radio Frequency Devices](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: To develop molecular beam epitaxy/ chemical vapor deposited (MBE/CVD or MOCVD) low-loss, tunable complex oxide thin film materials to enable compact, switchable FBAR filters operating in the 1-3 GHz frequency range. DESCRIPTION: In modern communication systems, frequency-agile and reconfigurable components are becoming increasingly necessary to cope with a multitude of signal frequen ...

STTR Army

7. [A11a-T017: Sensitive and Shape-Specific Molecular Identification](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The development of a compact and portable instrument that couples mass spectrometry and Rydberg spectroscopy to provide a complete "fingerprint" of a molecule, including molecular mass as well as isomeric and conformeric identification. This instrument will enable a major increase in selectivity for threat identification in the field, while minimizing sample consumption, as well as in ...

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8. [A11a-T018: Thin-Film Multiferroic Heterostructures for Frequency-Agile RF Electronics](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The goal of the research is to demonstrate the feasibility of using thin-film multiferroic heterostructures as magneto-electric tunable RF isolators at frequencies above 10 GHz. DESCRIPTION: Magnetic-field tunable ferrite devices are currently used as resonators, filters, phase-shifters, circulators, isolators. Unfortunately, the tuning response times limit their use at higher frequen ...

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9. [A11a-T019: Rugged Automated Training System](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this STTR is to develop a machine that will reliably train small animals to detect explosives or other compounds of interest and will provide an objective unbiased measurement of the animal's sensitivity and accuracy. DESCRIPTION: The Army is engaged in extensive humanitarian demining efforts. Demining is often necessary to restore farm land to agricultural use, ...

STTR Army

10. [A11a-T020: Automated malware understanding and classification](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Automated techniques for understanding and classifying behavior of novel malware. DESCRIPTION: The number of new malware being encountered in the wild is steadily and rapidly increasing. Recent reports show that more than 5,000 new, unique malware samples are encountered daily. In order to keep pace and not fall behind in the arms race with malware creators, there is a dire need for ...

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